

Ecole Doctorale de Chimie Moléculaire de Paris Centre - ED 406
Director: Dr. Cyril OLLIVIER/Deputy director PSL: Dr. Fethi BEDIQUI

Program of the
20th Conference of the Doctoral School
Webinar

Wednesday,
June 16, 2021

Morning sessions

Moderator

9h00 – 9h15	Opening of the 20th conference by Dr. Cyril OLLIVIER
9h15 – 9h30	Mehdi ABDELLAOUI Substrate-aggregate/gold photocatalyzed alkylnative cyclization of ortho-ethynyl-tosylanilines to indoles
9h30 – 9h45	Taleen PEKER Design of Selective Inhibitors of Serine Protease involved in inflammatory processes by Dynamic Combinatorial Chemistry on Folded Peptidic Scaffolds
9h45 – 10h00	Grédy KIALA Flow Chemistry Processes for the Catalytic Functionalization of Biomass Derivatives
10h00 – 10h15	Khaoula JAOUADI Mechanistic study of dual catalysis involving hypercoordinated silicon compounds
10h15-10h30	Raphaël SALLES Hybrid polyoxometalates as a way to build memory devices

Dr. Fethi BEDIQUI

10h30 – 10h45 *Break*

10h45 – 11h00	Ricardo MOLINA BETANCOURT Rhodium-Catalyzed Asymmetric Transfer Hydrogenation / Dynamic Kinetic Resolution of 3-Benzylidene-Chromanones
11h00 – 11h15	Leonardo CURTI Hybrid Nanomaterials
11h15 – 11h30	Luis GOMEZ MORALES Peptide mimics of the thrombospondin C-terminal binding domain: Analysis of their therapeutic potential to trigger immunogenic death of cancer cells targeting the TSP1-CD47 axis
11h30 – 11h45	Enxu LIU Molecular information ratchet based on cyclodextrin [2]rotaxane

Dr. Amandine
GUÉRINOT

11h45 – 12h00 **Mélanie EPHREME**

Digital humanities and construction of scientific disciplines: the history of chemistry in the 18th century through the prism of encyclopedias and dictionaries.

12h00 – 13h30

Lunch

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Afternoon sessions

Moderator

13h30 – 13h45

Buqin XU

Pressure-Induced Conversion of Paramagnetic FeCo square Complexes into molecular switches

13h45 – 14h00

Gauthier LEFEBVRE

Radical Addition of SF₅Cl to cyclopropenes: Synthesis of (Pentafluorosulfanyl)cyclopropanes

14h00 – 14h15

Ingrid SUZANA

Multifunctional hetero-poly-metallic architectures

Dr. Min-Hui LI

14h15 – 14h30

Fang LIU

Chemoenzymatic synthesis of glycosphingolipid analogues and biological evaluation of their anticancer activities

14h30 – 14h45

Gabrielle SCHANNE

Design and study of anti-oxidant inorganic complexes mimicking the superoxide dismutase (SOD)

14h45 – 15h00

Break

15h00 – 15h15

Agathe BRUDO

Multifunctional gold nanoparticles for bio-applications

15h15 – 15h30

Thomas ABEGG

Thermal and sigmatropic rearrangements involving (cyclopropyl)vinyl azides: Synthesis of pyridines and cycloheptadienes

15h30 – 15h45

Kajetan BIJOUARD

Lewis Acids and Bases Encapsulated in the Cavity of Cyclodextrins

Dr. Alexandre PRADAL

15h45 – 16h00

Kelly TRINH

Functionalization of silicon substrates with Polyoxometalates

16h00 – 16h15

Marine COSSET

Photolabelling coupled to mass spectrometry to understand antimicrobial peptide DMS-DA6 interaction with bacterial membranes at the molecular level

16h15 – 16h30

Break

16h30 – 16h45

Sébastien CURPANEN

Selective functionalization of furfural and its derivatives

16h45 – 17h00

Ruben PEREZ SEVILLANO

Enantioenriched allylsilanes: preparation through SN2' catalyzed addition of Grignard reagents

17h00 – 17h15

Adèle PEUGEOT

Benchmarking of Oxygen Evolution Catalysts on Porous Nickel Supports

Dr. Benoit BERTRAND

17h15 – 17h30

Tingting CHEN

Development of one-pot procedures for the preparation of conjugated trienes through sulfone- and π -allylpalladium chemistry

17h30 – 17h45

Aurélie DELVAUX

Evaluation of the Ion Mobility Spectrometry – Mass Spectrometry (IM-MS) approach for high throughput and large scale metabolomic analyses

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Thursday,
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Morning sessions

Moderator

- 9h15 – 9h30 **Anissa BEGHENNOU**
Synthesis of original fluorescent nucleosides
- 9h30 – 9h45 **Amina HAMIDOU**
Development of miniaturized analytical systems based on aptamers for the multi-detection of biomarkers
- 9h45 – 10h00 **Alexandre MILLANVOIS**
Asymmetric radical addition via chiral ion pairing
- 10h00 – 10h15 **Hugo FOUILLOUX**
A versatile and sustainable one-pot synthesis of biobased poly(meth)acrylates
- 10h15-10h30 **Nian ZHANG**
A photostable red and NIR amphiphilic polymer photosensitizer with aggregation-induced emission for image-guide photodynamic therapy

Dr. Marion
BARBAZANGES

10h30 – 10h45

Break

- 10h45 – 11h00 **Po Kai ANG**
Artificial Metalloenzymes from Bovine β -lactoglobulin with an N-functionalised N-Heterocyclic Carbene cofactor
- 11h00 – 11h15 **Youven BENSEGHIR**
Co-immobilization of an Rh catalyst and a Keggin polyoxometalate in the UiO-67 metal-organic framework: photocatalytic properties for CO₂ reduction.
- 11h15 – 11h30 **Fernando ESPINOLA PORTILLA**
Synthesis and characterization of nanomaterials for controlled drug release in response to external stimuli
- 11h30 – 11h45 **Silvia PUGLIESE**
Heterogenization of molecular catalysts for the Electrochemical Reduction of CO₂: the case of Nickel Cyclam
- 11h45 – 12h00 **Robin RAMOS**
Study of the cytotoxicity and intracellular fate of half-sandwich iridium complexes as potential anticancer drugs

Dr. Geoffroy
GUILLEMOT

12h00 – 13h30

Lunch

Thursday,
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Afternoon sessions

Moderator

13h30 – 13h45

Youwei CHEN

Deciphering the biosynthesis of the hybrid PKS-NRPS derived metabolites pyrrocidines produced by the maize endophytic fungi *Sarocladium zeae*.

13h45 – 14h00

Cassandre BORIES

Imines reduction using well-defined low-valent cobalt complexes

14h00 – 14h15

Giuvanni MUTTON

Synthesis of surface modifying copolymers

Dr. Benoit FLEURY

14h15 – 14h30

Pablo CHOURREU

New eco-friendly pathways for the synthesis of insect pheromones by iron-catalysed cross-coupling: development, industrial applications, and mechanistic aspects

14h30 – 14h45

Zhihua ZHANG

AIE-polymersomes with a Bright Far-Red/Near-Infrared Emission for Photodynamic Therapy

14h45 – 15h00

Break

15h00 – 15h15

Insaf BEN TERDAYET

Study of the influence of matrix and extraction method on the source inference process of ignitable liquids by an untargeted chemometric approach

15h15 – 15h30

Nicolas GILLAIZEAU SIMONIAN

Cobalt-catalyzed desulfonylative 1,4 radical aryl migration:
Synthesis of α -aryl amides

15h30 – 15h45

Valentin GOMEZ

Design, synthesis and photophysical and biological evaluations of new fluorescent analogs of Trypan blue targeting the Vesicular GLUTamate Transporters (VGLUTs)

Dr. Vincent CORCÉ

15h45 – 16h00

Jules SCHLEINITZ

Insights on Nitro Arenes Suzuki-Miyaura Coupling

16h00 – 16h15

Xingming JU

Design and synthesis of bioactive material by two photon polymerization

16h15 – 16h30

Break

16h30 – 16h45

Haipeng LIU

Coordination-induced supramolecular hierarchical assemblies of cyclodextrins

16h45 – 17h00

Yan LIN

Synthesis, Characterization and Antiparasitic Activity of Organometallic Derivatives of the Anthelmintic Drug Albendazole

17h00 – 17h15

Siphesihle NXELE

Synthesis, characterization, and electrophoretic separation of graphene-based quantum dots

Dr. Cyril OLLIVIER

17h15 – 17h30

Weixian WANG

Polyoxometalate-Supported Bioinspired Catalysts for Small Molecules Activation

17h30 – 17h45

Brenda Maria DE CASTRO COSTA

Development of microfluidic devices with integrated electrochemical detectors using 3D printing technology

18h00 – 18h10

Conclusion: Dr. Cyril OLLIVIER